DEDICATED MICROS

NetVu ObserVer

User Guide

Contents

Introduction

The NetVu Connected range of products consists of image servers, display servers and software applications. There are a number of Dedicated Micros user interfaces available, which have been specifically designed to ensure the NetVu Connected products can fit any network video application.

The following describes the functionality of NetVu Observer software which is available with any of the video products in the NetVu Connected DV-IP range; DV-IP, DV-IP Server, DV-IP ATM, TransVu, Eco, DS2A, DS2P, BX2.

> ***Please*** *contact Technical Support in your region for advice on DS software versions compatible with NetVu Observer.*

NO V1.6.0   NCK V4.10.5   JV 1.5.0_04

Features and Functions

NetVu Observer software is a dedicated application that offers single-site and multi-site control allowing an Operator to simultaneously monitor and control video from one image server or from several distributed sites.

The single-site functionality allows multiple cameras from the same image server to be viewed, in a multiscreen format, in Live or playback mode. This ensures the Operator is aware of all potential events that may occur within the 'site' they are responsible for monitoring. This functionality can be compared to an installation using analogue monitors and a keyboard but with the advantage of locating the monitoring station anywhere on the network, therefore removing the limitations of a wired system, i.e. maximum distances.

The software includes the necessary control functions for monitoring a video surveillance system for controlling of PTZ cameras, establishing audio connections, camera switching, etc.

To enhance NetVu Observer software, additional functionality includes multi-site monitoring capabilities. This is an ideal feature for central monitoring stations where video from multiple sites is routed across a network connection to a centralised location, providing Live and Recorded images from numerous sites (up to thirty-six) that can be viewed and controlled at a single location.

The software provides all the necessary controls required for a Central Monitoring application and with the introduction of 'drag and drop', the application now becomes even more intuitive for the Operator and allows access to cameras with a single key command.

Each event that comes in from a site opens an alarm session, if subsequent events come in from that site before it is closed they join that session. Sessions are automatically served to operators logged into the Event Distribution Point. Operators can view replay and live images from the site quickly to be able to respond to activities on the site. All the events are logged in an SQL database, and video from each session is linked to the alarm log, providing a clear audit trail.

Users are then required to close and characterise the events prior to closing the session, thereby enabling a compliant BS8418 audit trail.

Reports from the database can be created using standard database tools to enable bespoke solutions for customer management.

NetVu Observer enables access to the event lists that are stored on the image server. These files are where all logged alarms, VMD incidents and system changes are stored allowing the Operator quick and easy access to any event video recordings that are saved on the image server.

The following diagram shows how NetVu Observer software can be integrated in a Central Monitoring system, with access and control to any of the image servers that are part of the NetVu Connected product range.

Dedicated Micros has also taken the complete system integration one step further to allow new and existing systems to be monitored from a central monitoring station. NetVu Observer supports the ability to view and control following Dedicated Micros products:

Note: *The functionality available to the Operator will vary depending on which of the above (NetVu Connected or existing) is being controlled, refer to the Operational Controls section of this manual for details.*
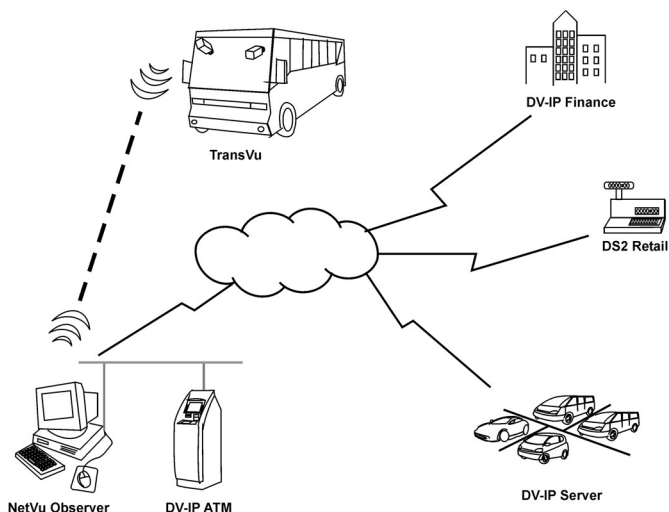
- NetVu Connected Video Servers and DVR's

  New DS2, DV-IP ATM, DV-IP Server, TransVu, DV-IP Encdoer, DV-IP Codec etc.

- Existing DVR's with upgraded software for CGI support

  Eco, DS2A, DS2P, BX2

The image servers and DVR's support the necessary network protocols to allow NetVu Observer to be the Operator interface for any installation using the above DM products.

How this Manual is Constructed

The Manual is divided into five sections:

- Installing NetVu Observer software
- Configuration of the application (customising the installed viewer)
- Operational controls
- Alarm Receiving Functionality
- Additional functionality

Acronyms used in this document

•EDP	Event Distribution Point
•RVRC	Remote Video Response Centre
•DVR	Digital Video Recorder
•ARC	Alarm Receiving Centre

NetVu Observer software can be accessed from:

- Directly off the CD ROM supplied with the unit
- Downloaded from the Dedicated Micros website (www.dedicatedmicros.com)
- Downloaded from the unit using the webpages

Installing NetVu Observer Software

NetVu Observer software is supplied on CD with the NetVu Connected device or alternatively can be downloaded from Dedicated Micros website.

The installation process described here works with either of these options

Note: It is necessary to install the appropriate JRE file for the PC operating system the software is to be installed on. The JRE files can be found on the CD ROM supplied, if this file is not installed the application will not work

PC Specifications

	Minimum	Recommended
Operating System	Window XP Pro	Windows XP Pro
Processor	1GHz Intel Pentium 3 or equivalent	2GHz Intel Pentium 4 or equivalent
System RAM	512MB	1024MB
Screen Resolution	800 x 600*	1024x 768 or higher*
Colour Depth	24bit*	24bit or 32bit*

Installing the JRE (Java runtime environment) file

1. Find the JRE file on the CD, the latest JRE is also available from java.com.
2. Run the exe file.
3. Use the installation wizard and follow the screen prompts to install the file.
4. Once the JRE file has been installed NetVu Observer can be installed.

Installing NetVu Observer application

1. Find the setup.exe file from either the CD or the web download.
2. Run the exe file.
3. Using the installation wizard follow the on screen prompts.
4. Select Next.
5. You may enter an install location or the install will default to C:\Program Files\NetVu ObserVer. Selecting browse will allow you to search the drives available to you on your PC and the network.
6. Select Next and the software installation process will commence.
7. Select Finish to end the installation process. A short cut to launch NetVu Observer will be automatically created on your desktop (unless this is disabled). The software can also be launched from Start -> Programs -> NetVu ObserVer.
8. Select Close to complete the file installation.
9. You will now be able to launch NetVu Observer application, this can be achieved from the Start option or if a shortcut has been created on the desktop by selecting this.

Configuring NetVu Observer Software

Each install of NetVu Observer software can be individually configured offering 'customisation' for each Operator workstation.

This section details the settings that can be configured for each install of the ObserVer application which include; the behaviour and appearance of the application, and configuration options for each image server accessible by the Operator.
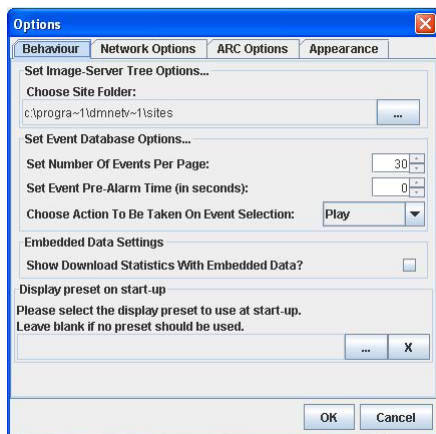
Option Menus
The Tools option provides access to configuration screens for the behaviour and appearance of the application.

Select Tools -> Options, the following configuration screen will be displayed.

Behaviour
This determines how the application will function, network settings, audio connectivity and how the database will store and display information.

|	
Set Image Server Tree Options	The selection of cameras within NetVu Observer is via a site tree folder, this option allows any previously configured sites to be selected.
Set Event Database Options	The image servers have the ability to store specific events within a database, NetVu Observer can access the event database of the unit being controlled. This option enables the operation of this to be configured, it also determines how the application will function when selecting an event i.e. pause the video. Note: This is not the RVRC database.
Embedded Data Settings	This option will display the download statistics along with the camera name, camera number, activity detectors, time and date in the embedded data window (View->Embedded Data). Retail or ATM applications will also display text data.
Display Preset on start-up	NetVu ObserVer offers the option to save an arrangement of servers and camera feeds and positions into a preset view arrangement (refer to Save/Load display preset). This preset can then be selected to load automatically when the software starts up.

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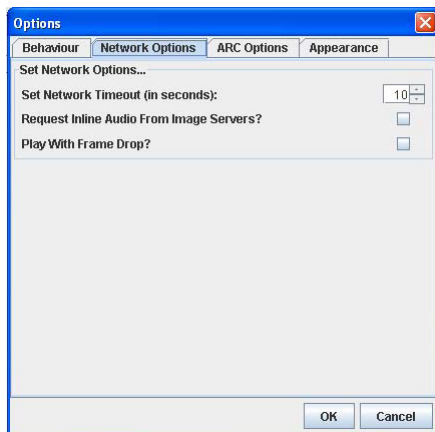
Network Options

Set Network Options

The Network Options section determines the behaviour of the network connection between the PC running ObserVer and the image servers.

Request Inline Audio From Image Servers

NetVu Connected devices support live and recorded audio. With the ObserVer application it is possible to connect to an image server and establish an audio connection in Live or Playback mode. The standard format for the audio connection from an image server is UDP, which means the audio is transmitted alongside the TCP video connection. With applications where a router will not pass UDP data it is possible to create a single TCP stream. Enabling the inline audio option will 'interleave' audio and video to create the single TCP stream.

Play with Frame Drop?

NetVu Connected devices will transmit (across the network) recorded images in real time. Where the remote network connection is limited, it is possible to instruct the image server to drop playback images to accommodate the speed on the network link. This instructs the system to maintain a realtime display by not transmitting every image.

ARC Options
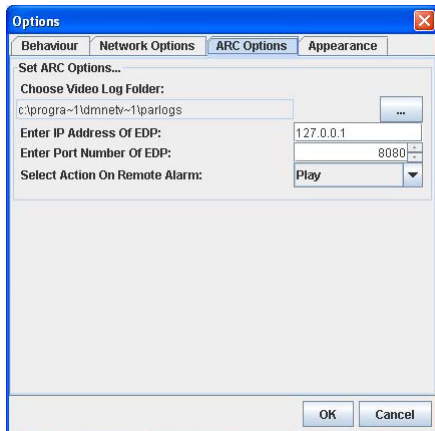
Set ARC options	This allows the operator to enter the RVRC details for the Event Distribution point software
Choose Video Log Server	Select the folder that will be used to store all alarm images Note: It is important to empty this folder regularly. All recorded alarm images received from the EDP will be saved in this location. It is important that this folder is managed, by ensuring there is adequate space to accommodate it, and that the images are archived and removed regularly.
Enter IP address of EDP	Use this box to enter the Event Distribution point server address, to enable reception of alarms.
Enter Port Number of EDP	This is set to the default port number, do not edit it unless it has been changed on the EDP.
Set Action on Remote Alarm	Use this box to determine what ObserVer will do with the alarm video when an alarm is received. The options are Play, Pause, Fast Forward or Rewind.
Network Timeout	This is the time in seconds that the application will wait to receive a response from an image server. If a response is not received within this time period the timeout image will be displayed identifying to the Operator that communication with the requested image server has not been successful.

It is possible to change the appearance of the installation of NetVu Observer application, this screen gives

access to the options available to change the appearance of the install.
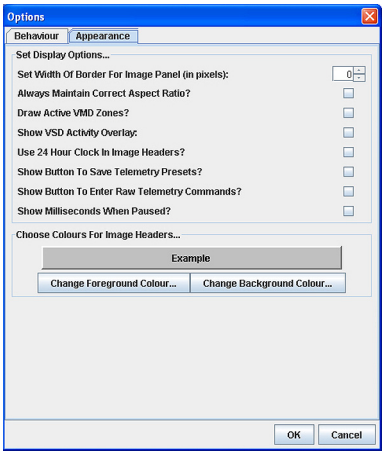
Set Display Options

Set Width Of Border For Image Panel	When viewing multiple cameras from an image server it is possible to allocate a border around each video image so that the images are separated, this is set in pixels.
Always Maintain Correct Aspect Ratio	This ensures the images displayed maintain the aspect ration of 4:3. This can be used to force a proportional image display on a widescreen display.
Draw Active VMD Zones?	This enables video motion detection to be displayed by overlaying VMD zones on the image, these will then be displayed in the areas of the images where VMD is present.
Show VSD Activity Overlay	Feature developed for specialist application in smoke detection.
Use 24Hr Clock In Image Headers	It is possible to display the time and date from the image server being controlled, this can be displayed in the image header and can be set to show the time in 24Hr mode (option enabled) or 12Hr mode (option disabled).
Show Button To Save Telemetry Presets?	This allows the Operator to save preset position on functional cameras, disabling this option will remove the save preset button from being displayed.
Show Button To Enter Raw Telemetry	This enables the button on the Telemetry panel to allow star commands to be entered
Show Milliseconds When Paused	This changes the paused display to show the time in milliseconds

Choose Colours For Image Headers

|	
Change Foreground Colour	It is possible to change the colour of the image header where the camera number, camera name and time and date are displayed. This option allows the text colour to be selected.
Change Background Colour	The background colour can also be changed to best display the text colour selected.

Structuring the site tree

NetVu Observer provides a site tree to allow folders, image servers and cameras to be easily selected. The site tree will display all image servers that the Operator can access, this information will be provided either by using an existing sitetree created with previous versions of NetVu ObserVer or by manually adding (and configuring) image servers to the tree.

As detailed an existing sitetree can be accessed via the 'Choose Root Folder' option in Tools -> Options -> Behaviour menu.

Adding a Folder

Folders can be added to the site tree allowing related image servers to be grouped together within one area ensuring the site tree is 'user friendly' for the Operator.

To add a new folder to the tree structure of NetVu Observer, right click on the folder to hold the new connection and select 'Add New Folder'.
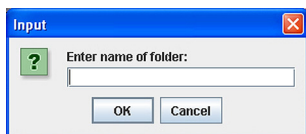
1. Highlight the Stored Image Servers Folder, or if a sub-folder (a folder within a folder) is required highlight the top level folder.

2. Click the right mouse button and select the Create New Folder option the following prompt will be displayed.

3. Enter the name that will be given to the new folder and click OK, a folder will be added to the site tree. The folder name should be of relevance to the area being monitored, e.g. Main Office Building, High Street, Town Centre.

    Image servers can now be added to the folder, or where required, a sub folder can be created.

4. Highlighting the new folder, clicking the right mouse button will provide the Operator with the following options;

Create New Folder	Will allow the quick creation of a folder in the current mouse position in the site tree
Add Image Server	Will launch the Image Server properties window in the Basic view described below.
Refresh	Will connect to the Server and update the window

Adding an Image Server to a Folder

An image server can be added to a folder to allow the Operator to easily select the unit and cameras for viewing and control. To add an image server to the site tree, right click on the folder to hold the new connection and select 'Add Image Server'.

Basic

Required Information

Name	Enter a suitable name of the image server that will be displayed in the site tree (for display only, this does not effect connectivity).
IP Address or Domain Name	Enter the IP address or URL of the image server. This will allow a connection to be automatically established between the PC running the ObserVer application and the image server when selected from the site tree.

Additional Information

The Additional Information is optional data that can be added to the server being configured and can used by the Operator.

Site ID	This MUST match the name allocated to the image server via the on-board web pages (Dial on Alarm). This parameter is used to match site information when the site sends alarms into the RVRC.
Site Plan Image File	It is possible to allocate a site plan to each server, this can be accessed by the Operator and can be used to identify where the image server is installed and where cameras are located. Using the 'Browse' button locate the site plan and select 'Open'. Note: This is a line diagram and is not interactive, formats supported are GIF, JPG, PNG or BMP.
Site Info Text File	It is possible to supply site information to the Operator in a text format, this information could be the contact details of the main key holder, etc. Using the 'Browse' button locate the text file and select 'Open'.

Security Settings

Username and Password	The image server can be password protected. The correct username and password can be entered here and saved.
FTP Username and Password	A password can be configured on the image server to ensure only authorised users can establish an FTP connection with the unit, which enables remote archiving of video data only, using the raw archive facility. The username and password can be saved here.

Display Settings

Show Disconnected Cameras in Tree	When making a connection to the image server it is possible to display the enabled cameras only or all cameras on the server. Enabling this option will show all camera inputs.

Note: *If this option is enabled, the disabled cameras (as configured on the image server) will be 'greyed' out and will not be active in the application.*

Show Telemetry Controls for All Cameras	Telemetry controls are only displayed when a camera has been enabled for telemetry on the image server. This option can allow telemetry controls to be displayed at all times.

Image Server Properties

Basic | Advanced

Network Settings
Limit Bandwith To: Unlimited KB/s
Connect Using WAN Mode: ☐

Initial Connection Settings
Start On Camera: 1
Use Layout: Single
Live Resolution: High
Playback Resolution: High
Request Image Format: JPEG

Request Appendices
Append To All Image Requests:
Append To Hi-res Image Requests:
Append To Med-res Image Requests:
Append To Lo-res Image Requests:

Set As Default | OK | Cancel

4. Select the Advanced tab, enter the relevant information into the Advanced configuration screen and click OK. The image server will now be added to the site structure.

Advanced
Network Settings

Limit Bandwidth	When the Operators workstation is located remotely from the image server or a limitation has been imposed to bandwidth available for video, it is possible to set the speed of network transmission which will ensure the data is transmitted at the limited speed. The options available are:
Unlimited	Default setting when the image server is connected to the same LAN as the PC running the ObserVer application. These settings would be used in applications where the bandwidth available for the video images is not restricted.
512, 256, 128, 64, 32, 16 or 8KB/s	These settings can be used to limit the speed of the network connection, this is useful in applications where bandwidth is an issue.
WAN	Identifies the number of images that are buffered in the image server. The normal setting is 3, selecting WAN will automatically change this to 1. This is more suitable when viewing images across a slow speed link and will mean that when switching between cameras, images from the new camera will not need to wait for the buffer to empty before sending new video images.
Initial Connection Settings	It is possible to select parameters that will be applied when making an initial connection to the image server.

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Start on Camera	This identifies the first display camera, i.e. if a single display is selected this is the camera that will be viewed. If a multi-screen display is selected, this is the first camera that will be displayed and all consecutive (enabled) cameras will be displayed in the remaining multi-screen segments.
Use Layout	This option identifies the screen display mode that will used when this server is selected from the site tree. The options are Single, Four Way, Nine Way and Sixteen Way.
Live and Playback Resolution	Identifies the resolution of the images that will be transmitted to the application from the image server in Live and Playback mode. This setting should take into account the network connection available between the image server and the monitoring location.
Request Image format	NetVu Connected devices support JPEG and MPEG-4 compression. This setting selects the transmission format that a site will use by default.
	Note: By using conditional image updating, MPEG-4 provides high quality images at a lower bit rate and would be more appropriate for systems where the network connection between the image server and ObserVer application is limited. JPEG uses full frame update and provides the best evidential integrity.
Request Appendices	This is an advanced configuration and allows text to be appended to image requests. This is used in retail applications where displayed text data is from tills or ATM's and is appended to the text stream.

Adding Temporary Image Server
It is possible to add an image server to the site tree on a temporary basis.

To add a temporary image server to the site tree:

1. Type the IP address or domain name of the image server into the edit box at the base of the site tree.

Enter IP address or domain name:

172.16.80.5   Add

Disconnect From All

2. Press the Add button, the application will make a connection to the unit and add the server to the site tree within a Temporary Server folder.

3. Selecting the right mouse button while the image server is highlighted will allow the Operator to;

Disconnect From This Image Server

Disconnect From All

Delete

Properties...

The Properties settings are detailed within the Adding an Image Server to a Folder section

Note: *It is possible to highlight a temporary image server and 'drag and drop' this into the Stored Image Servers section.*

Configure Image Server via Browser
This option is within the Tools menu and allows the Operator to access Web Configuration pages of the image server that is currently selected.

When selected a web browser (Explorer, Netscape, etc) will automatically be launched and you will presented with the main menu of the web pages for the unit.

View Menu
The View menu is used to show or hide sections of the controls.

Image Server Tree
Disabling this option would remove the site tree from the viewed window, this would remove the ability to select an image server, therefore making that workstation a viewing only unit. Links to hidden servers would still be accessible via an embedded map.

This option is enabled by default.

Remote Events
This enables the window that allows the user to login to the Event Distribution Point software. This is covered fully in later chapters.

Keyboard
The keyboard controls can be hidden from the application when a server is selected, which means an Operator would not be able to control the cameras being viewed, providing a monitoring only station. This would be used where only fixed cameras will be used.

This option is enabled by default.

Dashboard
The Dashboard option allows vehicle information to be displayed within the ObserVer application, this is functional when it is used in conjunction with Dedicated Micros mobile video products such as the TransVu.

This can be enabled or disabled depending on the requirements of the application.

Interactive Map
This allows any configured interactive map to be displayed or hidden. Interactive maps can be created using the freely downloadable software from the Dedicated Micros Website.

Activity Log, Embedded Data and Relays
These are covered in the Additional Functionality section of this manual.

NetVu ObserVer Controls

NetVu ObserVer is the Operator interface which provides access and control of the functionality supported on NetVu Connected devices and existing Eco, DS2 and BX2 DVR's. The software allows connection to be made to a single or multiple devices offering central monitoring capabilities of one or a number of remote locations.

The Operator controls supported by the Viewer are described within this section and are separated into:

> Connecting to image servers for viewing and control.
>
> Common controls - controls available in both Live and Playback mode.
>
> Controls available in Live mode only.
>
> Controls available in Playback mode only.
>
> Miscellaneous - additional functions that are not related to the operating mode.

Note: *Reference will be made to functionality that is not available when controlling existing DS2 and BX2 (i.e. non NetVu Connected) DVR's.*

Connecting to an Image Server
There are a number of ways to connect to an image server. Each will be described separately.

Temporary Image Servers
To connect to a temporary image server:

1. Type the IP address or Domain name of the unit into the edit box at the base of the site tree panel.

2. Select the Add button and the image server will be added to the site tree within the Temporary Image Sever section and the image from the first enabled input will be displayed within the application.

Stored Image Servers
To connect to a stored image server:

1. If the folder entries are not visible, double click the folder name or click on the + to the left of the folder name to expand the tree view. Select the folder which contains the image server.

2. Highlight the image server to display the first enabled camera.
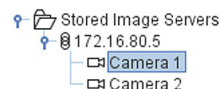
Existing Sitetree
To open an existing sitetree:

1. Select Tools -> Option.
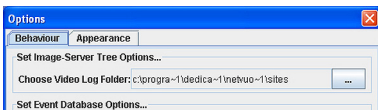
2. Select the Browse option alongside the Choose Root Folder and locate the database file

3. Select open, this will add all the database image servers to the site tree.

4. Open the folder that contains the image server to be viewed. Double click the mouse on the image server, this will display the first enabled camera.

Disconnecting from an Image Server

It is possible to disconnect all connections within NetVu Observer application, disconnect from a specific image server or drop the connection to a camera only.

Disconnect From All

The Disconnect From All button in the application will drop all connections between NetVu Observer and any image servers being controlled.

Disconnect From an Image Server

To disconnect from a specific image server, highlight the unit in the site tree and press the right mouse button to display a number of options.

Select the Disconnect From This Image Server option to drop the connection with the selected image server.

Disconnect From All - this option will drop all connections between the application and any selected image servers.

Delete - this will permanently delete the selected image server from the site tree.

Properties - this will provide access to the configuration parameters for the selected image server, refer to Adding an Image Server to a Folder section for full configuration details.

Disconnect From a Camera

It is possible to select an individual camera on any of the image servers and drop the connection between the ObserVer and that camera only.

To disconnect from a camera, highlight the camera within the site tree and press the right mouse button, this will display the following options.

Disconnect All Instances of This Camera - this will drop all connections with that camera, therefore whether a camera is being viewed in one or more segments of a multi-screen the camera will be dropped from being viewed in each segment.

Disconnect From This Image Server - this will drop the connection between the ObserVer and the image server and all cameras on this server will be removed from the display.

Disconnect From All - this option will drop all connections between the application and connected image servers.

Using the Interactive Map Feature

The Interactive map software is included within the NetVu Observer installation. The editor, which enables the creation of the maps for this feature, ia available free as a download from the Dedicated Micros website. It comes preloaded with demo images featuring DM offices worldwide.

Maps are created for each site using the map editor software. Maps should be created as part of the installation procedure, following the guide included with the map creation software. To enable viewing, select View -> Interactive Map.
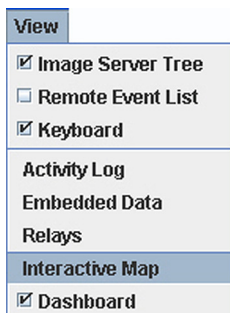
The top level map associated with this site will be displayed.

Note: *The controls within NetVu Observer remain the same when using the map facility. It provides quick and easy navigation for Operators.*
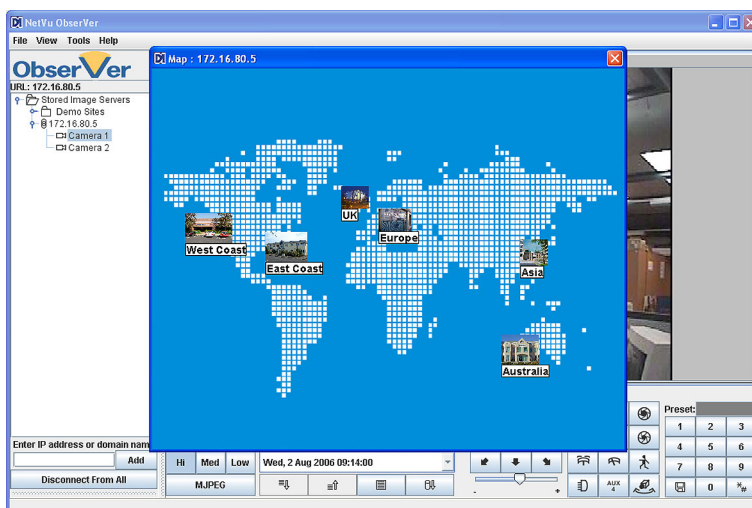
Click on one of the sites to open the submap
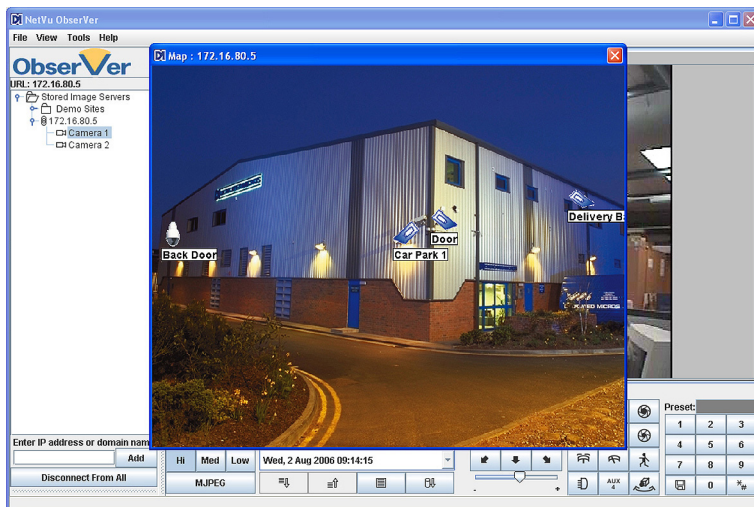
Double click on one of the cameras to display it in the selected segment in the ObserVer software. Alternatively, the camera icon can be dragged and dropped into a segment to display it.

Navigate back to the top level of the map by right clicking on the map. In Multisite mode, it is possible to select another of the sites from the top level.

Cameras from one image server can be displayed alongside images from different servers. When cameras from different servers are shown onscreen, the map will automatically navigate back to the top level.

The Map Editor software is available as a free download from the Dedicated Micros website, and is located within the Downloads section in the Support area (www.dedicatedmicros.com).

Common Controls
This section outlines the functionality that is common to both Live and Playback operating modes and explains how the functionality corresponds to the buttons within NetVu Observer.

Camera Selection
Selecting a camera is achieved using the site tree, the site tree displays the Image Servers that are currently being controlled as well as the enabled camera inputs on each server. Depending on whether the application is in single-site mode or multi-site mode the following will apply.

To select a camera or cameras;
Single-site mode	Clicking the mouse on the image server will result in input 1 of the unit being displayed (default), as long as it is connected and functional. Selecting a multiscreen display will result in the consecutive images on the server being cascaded in the multiscreen display - the number of consecutive cameras will depend on the cameras enabled and the display format selected.

Note: *If a multiscreen display has been selected in the Properties option when selecting the image server, the application will display the multiscreen and cascade the cameras starting from input 1.*

Single and Multi-site Mode	Highlight the required camera and 'drag' this to the position on the screen where the camera is to be displayed, the camera will be displayed in the full or multiscreen segment selected, or

| Single and Multi-site Mode | Select a monitor position (if multiscreen is displayed) and then double click the mouse on the camera, the images from the camera will be displayed. |

Note: *If the image server has been configured to identify camera failure, a 'Camera Fail' Image will be displayed on the relevant input (displayed as a colour chart with vertical bars) if the camera input is not available or faulty..*

Duplicating an Image

When a camera is displayed in a multiscreen display it is also possible to create a 'duplicate' of that camera. Select the segment where the camera is displayed and 'drag and drop' the camera to the new position that you want the camera to be shown, the image will be displayed in both segments.

Display Mode

NetVu Observer supports multiscreen viewing to allow numerous video images to be viewed simultaneously, which can be from any number of different image servers.

Note: *Refer to Appendix for full details on the display options available.*

The display option can be selected from the drop down list.

The multiscreen formats are available in Live and Playback mode.

The following details the image format groups supported in NetVu Observer application.

| Single | A single screen of the selected camera will be displayed in live or playback mode. When selected the last camera being controlled will be displayed. |
| Quad | A quad display with the selected camera and the next three sequential (enabled) video inputs, e.g. cameras 4, 5, 6, 7 will be displayed. If the sequential video inputs are not enabled then a blank screen will be displayed in live or playback mode. |

Instead of displaying sequential images it is possible to select which camera is to be viewed in each segment.

Click on a segment to highlight it and press the corresponding camera button to be displayed.

| Picture in Picture | It is possible to display a picture as an overlay of the main picture, the overlay can be a single or quad display. When a picture in picture display is selected the main window will display the last selected camera and the next (enabled) sequential image(s) will be displayed in the overlay section. |

Instead of displaying sequential images it is possible to select which camera is to be viewed in each segment. Click on a segment and press the corresponding camera button to be displayed.

| Multiscreen | Up to a 36 Way view can be selected in a number of variations, allowing up to thirty-six separate sites to be viewed using NetVu Observer at any one time. |

It is possible to identify where video inputs are to be viewed within the multiscreen.

Select the relevant segment (click on the segment) and select the camera from the site tree for the live or recorded image to be displayed in that segment.

It is possible to select a segment within the display, when a segment is selected a coloured box will appear around the segment to indicate control. Double clicking on a highlighted segment will toggle the display between fullscreen and multiscreen views.

Resolution Selection

| High | Medium | Low |

Although the resolution of the video from an image server can be configured with the Properties option (refer to Adding an Image Server) the ObserVer application also provides the ability to select the resolution of the images being viewed in Live and Playback mode.

This feature is useful when a slow speed link is being utilised for remote monitoring, reducing the resolution will reduce the amount of information that is being transmitted from the image server, and can provide faster image update providing easier control of telemetry cameras or more coherent viewing.

A resolution request is sent from NetVu Observer application to the image server, the unit will then apply the resolution settings stored within it's configuration to the images being transmitted to the viewer. The resolution settings are made up of the maximum file size and image size as configured in the Camera Set-up page.

Note: *The selected viewing resolution (high, medium, low) applies to all cameras being viewed.*

Note: *Image servers are able to re-compress, or transcode, recorded images during the playback process; this will reduce the size of the video image when using a slow remote link.*

High

High resolution is the optimum video image that will have a set resolution and files size associated – Live and Playback mode.

Medium

Medium is a lower quality video stream that is sending less information with a reduced file size – Live and Playback mode.

Low

Low is the lowest video quality and has a low file size allocated.

Note: *If the Live web page of the image server is used for viewing it is possible for multiple Operators to make connections to the unit and view the same camera at different resolutions.*

Audio Control

◁)) 1	◁)) 2	🎙
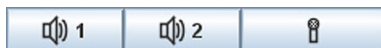
Image servers support bi-directional audio communication.

The audio controls in NetVu ObserVer allow audio connections to be established between the application and an image server allowing live audio to be transmitted and received.

These controls can also be used in playback mode if audio has been recorded alongside the video. The Operator can then select the speaker buttons to hear the audio while reviewing the video images.

The audio buttons are latched and allow the Operator to switch the audio on (establish audio connection) or off (drop audio connection).

Speaker 1	Speaker 1 enables the operator to listen to the associated audio from the site. This channel will always play audio input 1 with camera 1 and audio input 2 with camera 2, in live or playback.
Speaker 2	Speaker 2 enables the operator to listen to the audio from Observer which has been transmitted to the site. This only operates in playback and can be used to check what an operator has broadcast to a remote site's external loudspeakers.
Mic 1	Enables the transmission froma microphone on the monitoring station to loudspeakers on site. This is to enable operators to challenge people on site or issue warnings.

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Note: *Please note when viewing video through a firewall it may be necessary to select inline audio mode if audio is also required. Audio will be sent as part of the TCP video stream, Refer to 'Request Inline Audio From Image Servers' description in 'Behaviour' section of 'Configuring NetVu Observer'.*

Freeze on a Single Image

It is possible to use the VCR pause button in live mode to freeze the images that are being displayed. This allows an Operator to view in more detail the frozen image to determine if an incident is occurring. Freezing the live video will not affect the recorded images.

The pause button operates in the same way when in playback mode, pressing the pause button will pause the video being reviewed.

Save/Load a Display Preset

NetVu Observer supports the ability to save a Display Preset.

The application remembers the image servers being controlled, the cameras inputs being viewed and the position in which the images are displayed when a display preset is saved.

Note: *This does not apply to any Temporary image servers that are selected for view, it will only recall the Stored image servers and corresponding cameras.*

This view can then be selected at any time and the software will automatically re-establish the connections to the relevant image servers and display the correct camera inputs in the correct location.

To do this, select File -> Save Display Preset, the following screen will be displayed.
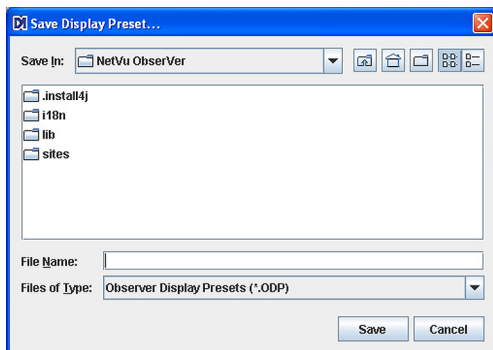
Enter a relevant name for the display for easy selection.

To recall a saved Display Preset, select File -> Load Display Preset and select from the list for the relevant Display. It will be automatically displayed.
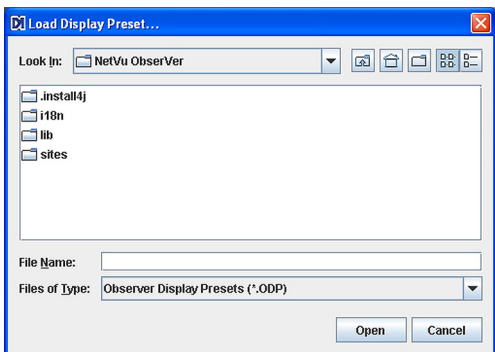
Live Mode Controls

This section describes the controls that are available to the Operator when NetVu Observer is in Live mode only

Live Mode

This switches the viewer into Live mode operation, all images displayed will be live video from the image servers being controlled.

Note: *These controls are only displayed when a camera that has been configured (on the image server) for telemetry control.*

The image servers support a number of PTZ manufacturer protocols ensuring the system can be easily integrated into any application. It is possible to select and control any PTZ / Dome camera connected to an image server from within NetVu Observer. It is also possible to send 'star commands' directly via this console using the numeric keypad. Note you will need to refer to the manufacturers documentation to ensure the PTZ / Dome camera supports these functions. The PTZ controls supported by NetVu Observer are,:

Pan and tilt control – move the camera by using the pan and tilt buttons, the arrow shows the direction the camera will move,

Zoom control – zoom in on an object, zoom out for full view.

Numeric keypad – This is used in conjunction with presets and patrol mode. To select a preset, select which camera is to be controlled, either in single view of by highlighting a segment in the multi view. Press the required preset position on the numeric keypad.

Focus control – focus on an object close to the camera (near), focus on an object in the distance (far). This will override any autofocus function on the camera.

Iris control – open iris to let more light into the image, close iris to reduce the amount of light. This will override any autoiris function on the camera.

Auxiliary control – wash the glass on the camera housing, wipe any water from the glass on the camera housing, switch lamps on and off, etc. The fourth auxilliary can also be used for other functions such as gate control.

Patrol Mode – A patrol mode can be stored within the PTZ/dome camera. Select the patrol number from the numeric keypad and then the patrol key.

Autopan – automatically move the camera between two pre-defined preset positions.

Direct Telemetry Control –Allows star commands to be sent directly to the camera. The Preset window above the telemetry keypad changes to a command input window. Commands are input via the numeric keypad. See Appendix for a selection of commands available. Star commands are entered via the numeric keypad ON THE COMPUTER KEYBOARD. Click the star key on the keypad, then enter the cammand via the computer keyboard and press the enter key on the computer keyboard. This will send the command to the camera.

Save preset–allows the operator to save preset positions for functional cameras. This will only be active if enabled in the application.

Important Information
It is possible to use VMD (Video Motion Detection) on moveable cameras that are connected to NetVu Connected image servers (this feature does not apply to non NetVu Connected DVR's).

Ensure that the camera has been configured correctly on the server so that, if VMD is active, the camera is set up to have VMD inhibited when it is moving.

See the server manual for full details on this.

MPEG4/MJPEG
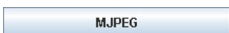
NetVu Connected servers can provide TransCoded video from the site in both Live and Replay modes.

In Live mode, MJPEG or MPEG 4 video can be selected for viewing. Using MPEG4 reduces the bandwidth required to view remote scenes, and when configured on the server, it can provide more fluid moving video over reduced bandwidth connections.

In Playback mode, if the video has been recorded in MJPEG then it can be either viewed as the recorded MJPEG or TransCoded to MPEG4 for viewing over reduced bandwidth links with improved image update rates. If the server is using MultiMode recording (MJPEG and MPEG4 recording) then the operator can either view recordings in their recorded format (MPEG4/ MJPEG) by selecting the MJPEG option, or Transcode them to MPEG4 by selecting the MPEG4 button.

Note: *It is not possible to TransCode from recorded MPEG4 to MJPEG for transmission*

Note: *This is an application level command and will change ALL images being displayed within NetVu Observer. It does not just apply to the image currently being viewed.*

This option is not available on non NetVu Connected DVR's (previous versions of Eco, DS2 and BX2), these units transmit MJPEG images only.

Playback Mode Controls

In playback mode it is possible to use the VCR keys to control the images being reviewed.

There are a number of options available when playing back a video image;

Play - playback the video from the camera selected or highlighted an alarm file.

Pause - stop the video on a particular image.

When JPEG video is paused, the fast forward and rewind buttons operate as frame advance and rewind.

When paused in MPEG viewing, the fast forward and rewind buttons step between I-Frames.

Fast rewind - move quickly back through the recorded video

Fast forward - move quickly through the playback video.

Record - create a local copy of the image sequence currently on screen. Click on the button to open the submenu.

Note: *This control is not available when the Remote Events List is displayed*

Start record	
Record options... ▶	Directory...
	Filename...
	Filename using local time
	Filename using UTC time

Directory - used to define where the recorded file will be saved

Filename - used to name the recorded file

Filename using local time - used to automatically name the file using the time on the local PC

Filename using UTC time - used to automatically name the file using the time zone specified as local on the unit

Therefore if the unit is in a different time zone to the PC, the operator can select which time data to use.

N : FFWD/RWND Speed

It is possible to increase the speed of the video in playback mode. When fast forward or rewind have been selected, the speed of the video can be increased by up to 1000 times the normal speed by selecting one of the options from the drop down list. The N mode will transmit at the fastest possible rate without dropping or skipping pictures, the speed of this mode will vary dependant on record rate and network transmission speed.

Mousekey Subfunctions

Right clicking on a playing camera, or on a live camera view in the viewer will open the zoom menu, allowing the user to alter the zoom level to 100%, 200%, 400% or 800%.

Right clicking on a paused image will enable additional functionality.

Save	This will allow a jpg in a user specified location.
Save as Reference	This allows a camera reference image to be saved for future comparison. This can then be used for visual comparison to check camera positioning, or when visibility is poor (fog, night) to identify features. The camera reference image is recalled by right clicking on the camera in the site tree and selecting 'View Reference Image'.
Print	This sends the paused image to the printer.

Note: *Saved / Printed images will have the time and date embedded in the title bar*

Go To Time and Date

It is possible to review a specific video recording by selecting the time and date. Select the down arrow next the the date window to display a calendar where the time and date can be selected.

Enter the information and press OK, and any available video from the specified time and date will play.

Event List

The image server logs every event (as configured in the web configuration pages) to an event database. NetVu Observer can be used as the interface to access this database and allow the Operator to review the event list and any video recordings associated with the event.

When the Event List button is clicked, the event list for the image server will be displayed. An additional tab will also be added in the display window to allow the Operator to switch between the event list and live viewing.

Date & Time Of Alarm	Camera	Alarm Text	Video
31-Jul-2006 09:15:14	1 - Camera 1	VMD Zone 11	Yes
31-Jul-2006 09:16:01	1 - Camera 1	VMD Zone 10	Yes
31-Jul-2006 09:26:27	1 - Camera 1	VMD Zone 10	Yes
31-Jul-2006 09:29:59	1 - Camera 1	VMD Zone 11	Yes
31-Jul-2006 09:31:26	1 - Camera 1	VMD Zone 11	Yes
31-Jul-2006 09:37:51	1 - Camera 1	VMD Zone 9	Yes
31-Jul-2006 09:37:59	1 - Camera 1	VMD Zone 11	Yes
31-Jul-2006 09:51:44	1 - Camera 1	VMD Zone 15	Yes
31-Jul-2006 09:54:50	1 - Camera 1	VMD Zone 10	Yes
31-Jul-2006 09:55:46	1 - Camera 1	VMD Zone 11	Yes
31-Jul-2006 10:00:56	1 - Camera 1	VMD Zone 11	Yes
31-Jul-2006 10:09:08	1 - Camera 1	VMD Zone 9	Yes
31-Jul-2006 10:26:27	1 - Camera 1	VMD Zone 11	Yes
31-Jul-2006 10:29:56	1 - Camera 1	VMD Zone 10	Yes
31-Jul-2006 10:31:36	1 - Camera 1	VMD Zone 9	Yes
31-Jul-2006 10:33:36	1 - Camera 1	VMD Zone 11	Yes
31-Jul-2006 10:34:13	1 - Camera 1	VMD Zone 9	Yes
31-Jul-2006 10:36:15	1 - Camera 1	VMD Zone 12	Yes
31-Jul-2006 10:36:31	1 - Camera 1	VMD Zone 9	Yes
31-Jul-2006 10:37:13	1 - Camera 1	VMD Zone 12	Yes
31-Jul-2006 10:37:25	1 - Camera 1	VMD Zone 11	Yes
31-Jul-2006 10:39:37	1 - Camera 1	VMD Zone 9	Yes
31-Jul-2006 10:41:30	1 - Camera 1	VMD Zone 11	Yes
31-Jul-2006 10:43:19	1 - Camera 1	VMD Zone 11	Yes
31-Jul-2006 10:51:19	1 - Camera 1	VMD Zone 11	Yes
31-Jul-2006 10:52:20	1 - Camera 1	VMD Zone 9	Yes
31-Jul-2006 10:53:55	1 - Camera 1	VMD Zone 11	Yes
31-Jul-2006 10:57:12	1 - Camera 1	VMD Zone 9	Yes
31-Jul-2006 11:05:27	1 - Camera 1	VMD Zone 10	Yes
31-Jul-2006 11:06:31	1 - Camera 1	VMD Zone 11	Yes

Refresh	Page +	Page -	Clear Filters	Alarm Still

Note: *The event list button is a latched button, when selected the event database for the server will be displayed, selecting again will switch the application back to view mode and remove the Event tab.*

Selecting Refresh will refresh the event list.

Refresh

Previous Event

≡⇧

Next Event

≡⇩

If an event has associated video recordings, highlighting and double clicking that event will automatically display the recorded images. Alarm text will be displayed in the title header of the image.

When the images are being reviewed the Live tab will be renamed as Replay so the Operator can tell the mode of operation. Click on the Events tab to return to the list of events.

The number of events shown on a single page is configured in the Tools -> Options menu of NetVu ObserVer.

Previous Page

Page -

Next Page

Page +

Using the previous and next buttons allows you to step through the pages of events.

Highlighting an event and selecting right mouse button will also allow the Operator to:

Refresh the Event List.

Get Previous 10, 50 or 100 Events.

Get Next 10, 50 or 100 Events.

Filter events by date, camera or alarm type.

Refresh Event List	
Get Previous	▶
Get Next	▶	10 Events
Filter	▶	50 Events
		100 Events

Filter Events
It is possible to filter the event list by; text (if enabled), date, camera and alarm type using the Filter button in the right hand window.

Filter Text by typing the phrase or word required in the search box at the top. This will search for occurances of the text in the text stream alongside the recorded video.

Filter by tiem & date using the drop down boxes to select a start and end parameter for the search. This will search for all events within the specified time period

Filter by Camera by selecting the relevant camera. Right click to quickly select all. This will search the event list for events associated with the selected camera.

Filter by Alarm type by selecting GPS, VMD, Zone, System or All.

Press Apply at the bottom to begin the Filter.

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It is possible to clear any filters from the event list by using the 'Clear Filters' button or the 'Clear all filters' option when the right mouse button is right clicked on the Event List.

When filter by date is selected it is possible to identify the start and end date including the start time.

Activity

The unit provides the option to search the stored images for activity within defined areas, even if Activity detection was not enabled on the unit. Select the activity button on the Event screen to open the Activity filter.

A reference image is shown with a search grid superimposed. The default buttons below the image allow a quick selection of a quadrant of the image, the button on the upper left allows selection of an block by dragging with the mouse, and the button on the bottom right allows selection of individual search squares.

The Activity States options allows the user to specify whether the search is for ACT on, ACT off or ACT both.

ACT on	Will search for when Activity starts
ACT off	Will search for when Activity ends
ACT both	Will search for when Activity starts and ends

The Activity Parameters are used to define which camera will be searched and the Camera Dwell Time. The Camera Dwell time is the amount of time the camera is static during a patrol.

Download Images

It is possible to download all associated recorded images from the hard drive of the image server to the local PC (or a networked PC) from a specified time and date. These files can then be played back using NetVu Observer software, refer to Additional Features, Replay Server section for details on how this feature operates.

Note: *Although this option can be selected when controlling non NetVu Connected DVR's (Eco, DS2 and BX2) this functionality is not supported and images can not be downloaded from these units.*

There are two types of downloads;

Filtered   Raw
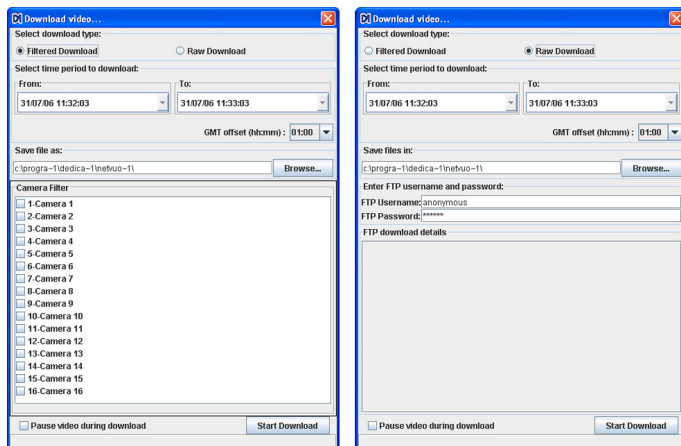
Clicking the download key will open the Download screen. You will need to identify the download method (filtered or raw), time and date ('to' and 'from'), the file name and location and if filtered was selected, which cameras that are to be downloaded (raw will download all cameras).

Select Download to download the images, this process may take a some time depending on the size of the video segment selected and the network connection to the unit.

Note: *Selecting 'Raw' may require entry of the Username and Password if these have not been added in the configuration section of the image server for creating an FTP connections from the PC to the image server, default are dm and ftp.*

Alarm Receiving Functionality

NetVu Observer supports the ability to receive alarm notification from NetVu Connected devices. These alarms can then be managed by the Operator for verification and acknowledgement.

NetVu ObserVer also supports the ability to distribute any number of alarms to multiple operators on any PC, within the same subnet, running NetVu Observer software.

The NetVu Observer installation for central monitoring stations comprises the NetVu ObserVer viewer and the Event Distribution Point software.

The EDP enables full BS8418 compliant RVRC monitoring. The application receives alarms from NetVu connected devices, logs them in a full SQL database and serves it to any one of the available NetVu ObserVers connected and logged on to the EDP. This is done according to a 'rulebase' which ensures that all alarms are divided equally between all operators. The operator is then required to respond and close the alarm event providing a classification of the alarm, along with a comment if necessary. The EDP will serve further events from the same image server to the same open session with that operator until the session is closed.

It is possible for the monitoring station to then interrogate the EDP database to generate reports for billing or site maintenance purposes.

Configuring the System for Alarm Receiving

NetVu Connected Devices

For NetVu Observer to receive alarms from a NetVu Connected device, the IP address of the PC running the EDP must be configured within the Alarm/VMD Reporting option of the NetVu Connected device. For applications where the alarm will be sent externally to the network via a router the external IP address of the router should be entered, it is then possible to configure port and data forwarding on the router to direct the data to a specific internal LAN PC.

The unit must also be configured to send alarm reports for specific conditions (alarms, activity, system restart, etc.).

NetVu ObserVer

Within NetVu Observer application it is necessary to ensure the viewer is monitoring the network for alarm messages. To do this, NetVu ObserVer must be logged on to an Event Distribution Point using a valid username and password.

Click on View->Remote Event List to open the Remote Events window and log in. The Username and Password are case sensitive. The EDP will distribute all alarms it receives between the logged on ObserVer users.

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Event Distribution Point Software

NetVu Observer can receive alarm notification from NetVu Connected devices. These alarms can then be managed by the operator for verification and acknowledgement.

NetVu ObserVer also supports the ability to distribute any number of alarms to multiple operators on any PC, within the same subnet, running NetVu Observer software.

The NetVu Observer installation for central monitoring stations comprises the NetVu ObserVer viewer and the Event Distribution Point software.

The EDP receives an alarm, logs it and serves it to one of the available NetVu ObserVers connected and logged on to the EDP according to a 'rulebase' which ensures that all alarms are divided equally between all operators. The operator is then required to respond and close the alarm event providing a classification of the alarm, along with a comment if necessary. The EDP will serve further events from the same image server to the same open session with that operator until the session is closed.

Note: *The EDP and NetVu ObserVer use UDP protocol and multicasting to communicate across the network. Check with the network administrator to ensure your network is UDP capable.*

Note: *Ensure the text string used for Site ID (Image Server Properties : NeVu ObserVer) and for Unit alarm name (Network Options->Remote Reporting : On the unit) are the same.*

To Install the EDP software on the unit
The EDP software is supplied on CD with NetVu ObserVer or alternatively can be downloaded from Dedicated Micros website.

The installation process described here works with either of these options

Specifications

	Minimum	Recommended
Operating System	Window XP Pro	Windows XP Pro
Processor	1GHz Intel Pentium 3 or equivalent	2GHz Intel Pentium 4 or equivalent
System RAM	512MB	1024MB
Screen Resolution	800 x 600*	1024x 768 or higher
Colour Depth	24bit*	24bit or 32bit*

Installing the JRE (Java runtime environment) file
1. Find the JRE file on the CD, the latest JRE is also available from java.com.
2. Run the exe file.
3. Use the installation wizard and follow the screen prompts to install the file.
4. Once the JRE file has been installed NetVu Observer can be installed.

Installing the EDP application
1. Find the setup.exe file from either the CD or the web download.
2. Run the exe file.
3. Using the installation wizard follow the on screen prompts.
4. You will now be able to launch the EDP application using the Start option or the desktop shortcut if one has been created.

Configuring the EDP Software

Each operator that will receive alarms via this system needs to be registered as a user on the EDP application.
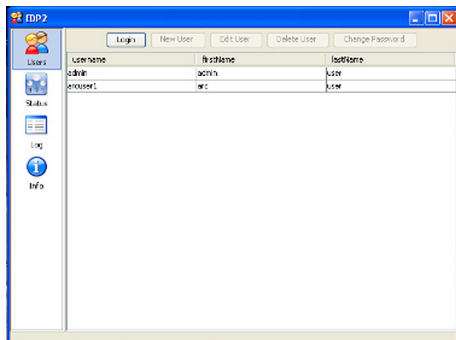
1.   Launch the EDP software.

There are four information panes available, labelled Users, Status, Log and Info.

Users   Allows administration of user accounts including creation, editing and deletion and modifying passwords

Status Displays the current operation mode of the software

Log   This page is used when contacting Dedicated Micros Technical Support. It displays information on what the software is doing.

Info   This page is used when contacting Dedicated Micros Technical Support. It displays information on the different services being used by the database.

Administering User Accounts
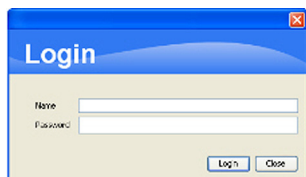
1.   The first time the application is launched it will display the Users window with two accounts preloaded. The software requires an administrator to log in to add new user or admin accounts. The default username and password are admin and password respectively. These should be changed as soon as possible to maintain security. Click the Login button at the top of the pane and enter the administrator username and password.

2.   Once successfully logged in, the administrator will be able to Create, Edit and Delete Users, as well as change the password on any account.
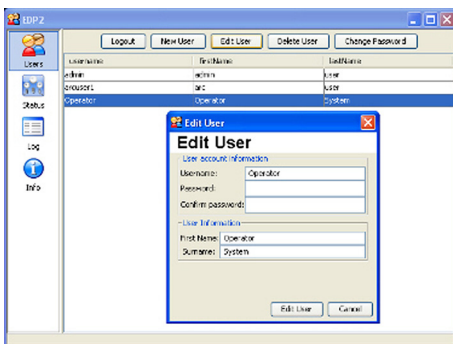
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To create a new user;

1.   Click on the 'New User' button. A dialog box will open.

2.   Add information to all the required fields and click the 'Add User' button, or click 'Cancel' to abandon the operation.
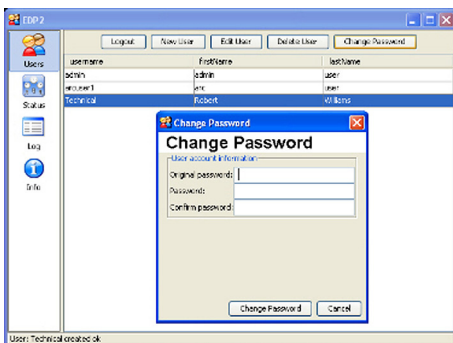
To edit a users details;

1.   Highlight the user account to be edited and click on the 'Edit User' button. A dialog box will open.

2.   Change the information and click the 'Edit User' button, or click 'Cancel' to abandon the operation.

To change a Password;

1.   Highlight the user account and click 'Change Password'. The dialog box will open

2.   Enter the original password in the correct box. Enter the new password, and repeat it in the second field. Click on 'Change Password' to confirm the change, or 'Cancel' to abandon the operation.

To delete a user;

1.   Highlight the user account and click the 'Delete User' button. The account will be immediately deleted. Ensure you select the correct account to delete as there is no confirmation stage.
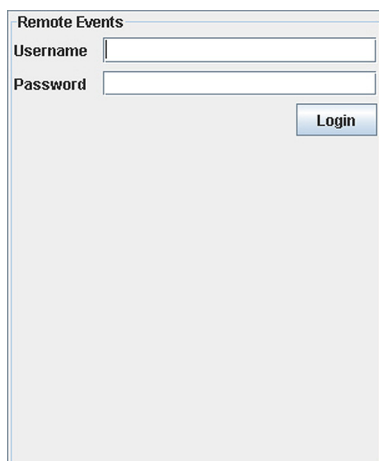
Using the EDP from within NetVu Observer

The EDP will distribute the alarms to connected NetVu ObserVer operators. An operator will need to log on from within ObserVer to use this facility.

To log into the EDP;

Ensure *that the settings for the EDP have been configured correctly. Click on 'Tools->Behaviour' and verify the settings in the panel named 'Set ARC Options…' are correct for the EDP server.*

1. Open the EDP login window by clicking View -> Remote Event List.

2. Enter a username and password for a valid registered user on the EDP.
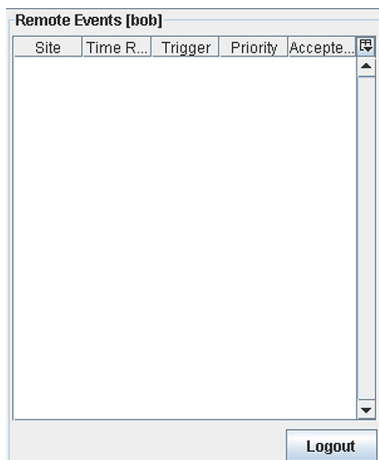
3. The system will display any forwarded alarms from the EDP in the Remote Events window.

Receiving Alarms

Once the system is configured for receiving alarms, ensure both the NetVu ObserVer software and the Event Distribution Point software are running.

When an alarm is triggered, the Primary host will receive the alarm. This will be displayed in ObserVer in two ways;

–Added to an Event List in the viewer

–Display the alarm image within the viewer
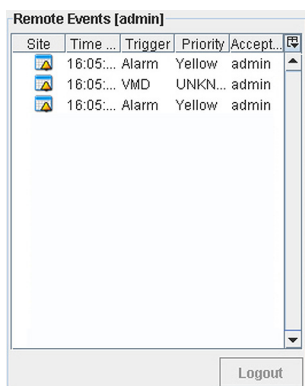
Event List - NetVu Observer will display all events within the event list, this will detail; the unit name, time & date, the camera input and the type of alarm.

Controlling Alarms
When an alarm is received and logged it can be accepted for review by the Operator within NetVu Observer.

Note: *Events can not be accepted or closed within the Event Distribution Point software. This distributes the alarm to specific operators. NetVu Observer accepts and closes Events.*
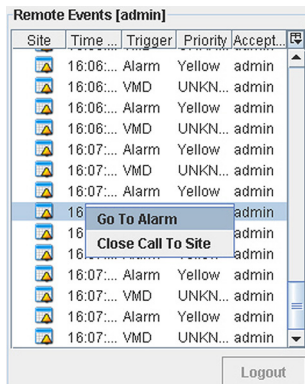
Highlight the alarm from the event list in the viewer and click the right mouse to open the option to go to the alarm (view the images) or to Close the call to site.

When all events from one site have been reviewed, it is possible to Close the call to site. This will remove all events sent from this site from the list.

This information will be recorded in the EDP database for review or reporting at a later date.

Additional Alarm Information
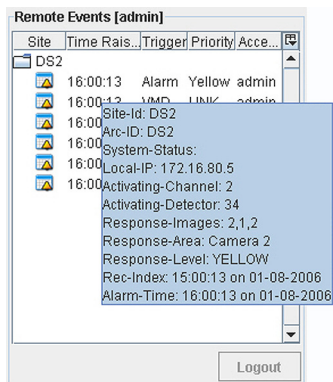
It is possible to obtain more detailed information on any of the events within the Event List.

Move the mouse over the event until an event window pops up which contains more detailed information.

Additional Functionality

Replay Server

NetVu Observer can be used as a replay server to allow recorded images that have been downloaded from a NetVu Connected (not supported on non NetVu Connected DVR's) image server, it also allows removable hard drives from TransVu products to be interrogated.

Select File -> Open Video, you will be presented with a number of options to gain access to the downloaded video.

Open Selected Files	This option allows specific files to be selected for review.
Open Selected Folder	Selecting this option will open all files contained within a specific folder.
Open Disk Image	This option is for when a USB playback station is connected to the PC and contains a removable hard drive from a TransVu unit.
Open Video Logfile	This option is selected for viewing files saved using the record button and when selected will present a reduced keyboard for control during playback.

Note: *If a removable hard drive is to be reviewed this must be connected prior to selecting this option.*

Open Selected Files
The following screen will be displayed, this will allow you to select a PAR (filtered download). It is possible to select multiple files at the same time.
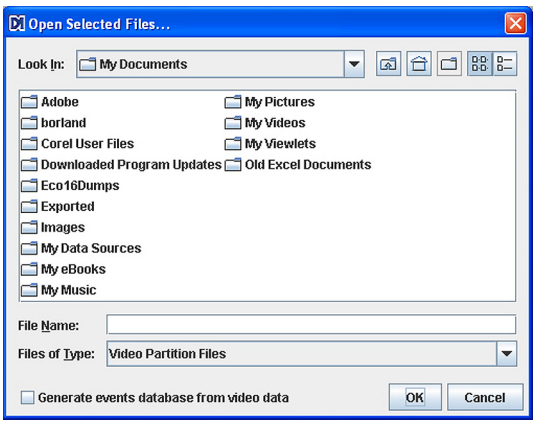
Note: *The PAR files replace the previous mode of MJP download seen in other DV-IP Viewers.*

Highlight the required file(s), use the Shift or Control to select more than one file, and press OK, the images will be imported into the application.

Press the Done button, the imported images will automatically displayed in the application.

The cameras that have associated video will be displayed in the site tree allowing each to be individually selected for review. The replay server can also display a multiscreen of all recorded cameras.

The VCR controls perform in the same way as they do in Playback mode.

Open Selected Folder
This option offers the ability to open a number of video files that are within a specific folder (or folders). When this option is selected the following screen will be displayed, highlight the folder(s), use the Shift or Control key to select more than one folder, and press OK.
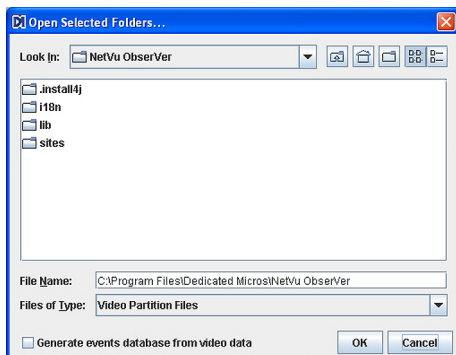
All files within the folder will be imported into the application.
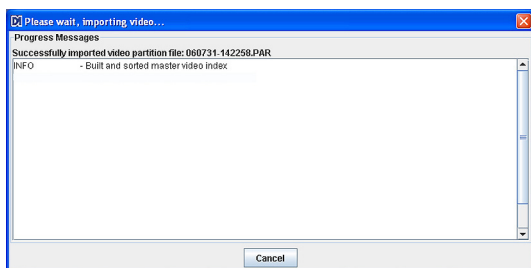
Press the Done button, the imported images will automatically be displayed, all cameras with associated video will be active in the site tree and can be individually selected for replay. Alternatively a multiscreen can be selected to review all cameras simultaneously.

The VCR controls behave in the same way as described in the Playback Mode section of this manual.

Note: *If a multiscreen display is selected, choosing a camera for display will automatically display the consecutive cameras in the multiscreen.*

Open Disk Images
If images are being reviewed from a removable hard drive within a USB playback station (TransVu), this option will allow all images stored on the removable drive to be selected.

Note: *Ensure the USB device is connected to the PC before opening NetVu Observer application to ensure the device can be recognised.*
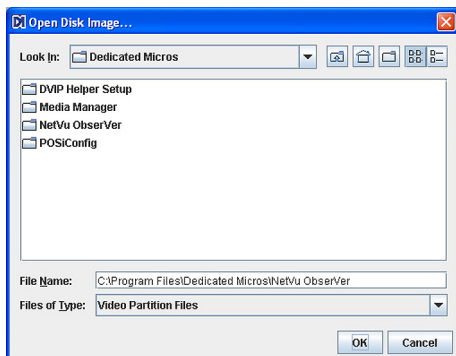
Locate the new drive and press OK.
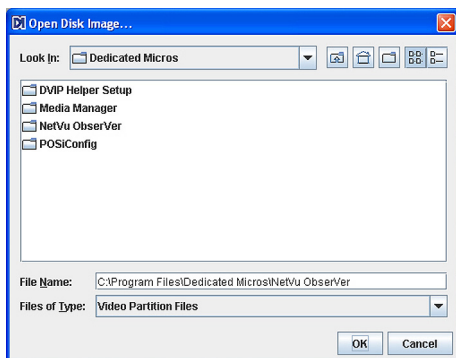
The images will be imported into the application, this may take a while depending on the number of files stored on the removable drive.

View Menu Additional Functions

Embedded Data
Within NetVu Observer it is possible to display the embedded data for the cameras being viewed, this information gives details on camera name, camera number, activity detectors, time and date.

This information can be useful when evaluating the system or when contacting Dedicated Micros Technical Support.
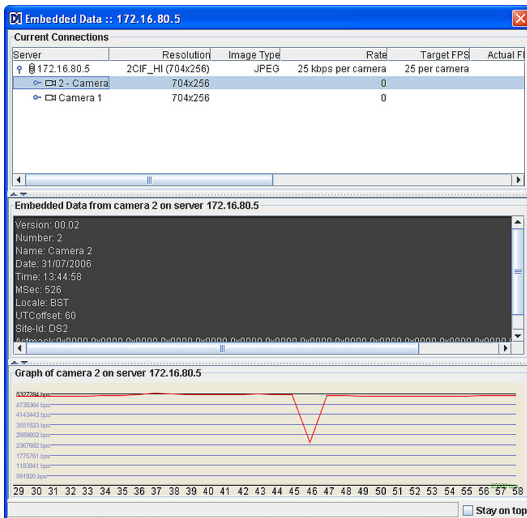
Note: *The number of pictures per second for the selected camera is also displayed in the bottom left of the embedded data panel. The content shown in this panel will depend on the preferences set in 'Tools -> Options -> Behaviour -> 'Show Download Statistics With Embedded Data'.*

Embedded Text

NetVu Observer offers the option to monitor the text stream passing from a server used in a POS or ATM application. This Window will display any text being sent by the selected server.

Activity log
This window contains information commands sent to the video server as the viewer controls the device.
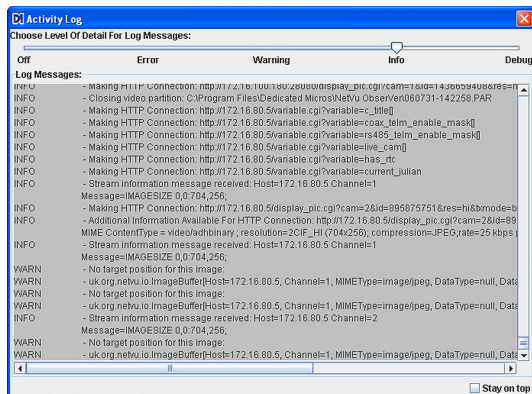
Note: It is possible to configure the activity log to show different levels of messages, if you experience difficulties using the program Technical Support may ask you to select debug mode for all messages to be visible.

Relays
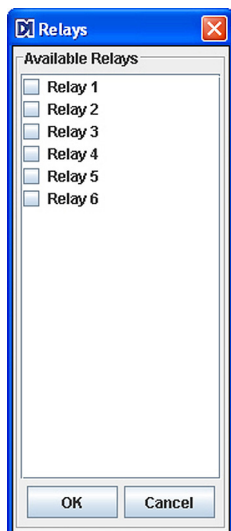
NetVu Connected devices support on-board relays with the option to add more relays via the 485-bus. These relays can be controlled locally or remotely using NetVu Observer software.

To control any associated relays, highlight the image server in the site tree and select 'Relay' option from the View menu.

The Relay panel will be displayed. Select the relay to be switched by placing a tick alongside the relay, then click OK to activate.

Note: Ensure you click OK after making any changes to reset the parameter.

Dynamic Vehicle Data Displays
TransVu units only

Dashboard

This will open the display showing live vehicle data being sent from the selected server, which can indicate MPH, RPM, operation of the indicators, brakes and accelerator.

GPS Components

This window will display live GPS data being sent from the selected server, including vehicle location, direction and time.

G Force Graph

This window will display live data being sent from the selected server indicating lateral g-forces and peak recordings.

Help
The Help option includes the About menu, this will provide details on the version number of NetVu Observer software, the toolkit and the JRE and is useful information when contacting Dedicated Micros Technical Support.

There is also the option to make a connection, via the Internet, to the Dedicated Micros website, this requires a Internet connection from the PC running the software.

Appendix A

Display Options

There are a number of screen displays supported within the viewer, any of these can be selected from the drop down list

The following shows the screen displays along with the default camera positions when the associated display option is selected.

Single image
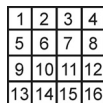
16 Way
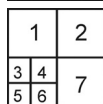
4 Way
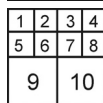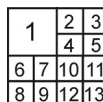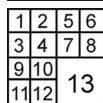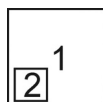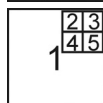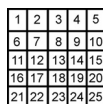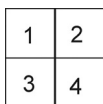
9 Way

4 (TL) plus 3

4 (TR) plus 3

4 (BL) plus 3
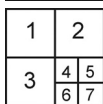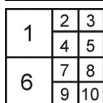
4 (BR) plus 3
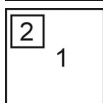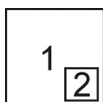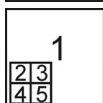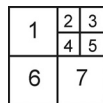
8 Plus 2 (TL/TR)

8 Plus 2 (BL/BR)

8 Plus 2 (TL/BL)

8 Plus 2 (TR/BR)

12 Plus 1 (TL)

12 Plus 1 (TR)

12 Plus 1 (BL)

12 Plus 1 (BR)

P in P (TL)

P in P (TR)

P in P (BL)

P in P (BR)

4 Way P in P (TL)

4 Way P in P (TR)

4 Way P in P (BL)

4 Way P in P (BR)

Twenty-five Way

Thirty-six Way
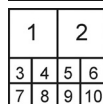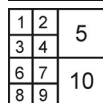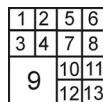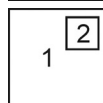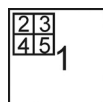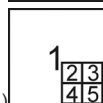
Appendix B

Selection of User Star Commands

These commands control the selected camera directly without using the NetVu ObserVer interface. Use the computer keyboard to input the commands, as described in the manual.

Command

*1xx (where xx is the range)

Range	01 - 02
Function	Select Monitor 1 or 2
BBV Telemetry Equivalencies	NOT IMPLEMENTABLE
Pelco Equivalencies	NOT IMPLEMENTABLE

Command

*2xx (where xx is the range)

Range	01 - 16
Function	Select Camera 1 to 16
BBV Telemetry Equivalencies	Select Camera to apply telemetry information
Pelco Equivalencies	Select Camera to apply telemetry information

Command

*4nx (where n is the function, x enables or disables)

Range	x=5 for on, x=0 for off
Function	Auxilliary Relay Control (values for n : 1=wash ; 2=wipe ; 3=lamps ; 4=autopan)
BBV Telemetry Equivalencies	Auxiliary Relay Control (values for n : 1=wipe ; 2=lamps ; 3=wash ; 4=autopan)
Pelco Equivalencies	n = 1 to 8, dependant on settings retained in the head

Command

*7xx (where xx is the preset position)

Range	Dependant on Dome
Function	Store preset xx
BBV Telemetry Equivalencies	Stores current position as preset 01-15 on the selected head
Pelco Equivalencies	Stores current position as preset 01-31 on the selected head

Command

*9xx (where xx is the preset position)

Range	Dependant on Dome
Function	Go to preset xx
BBV Telemetry Equivalencies	Go to preset 00-15 on the selected head (00 is park position)
Pelco Equivalencies	Go to preset 00-33 on the selected head (32 = 180° pan rotation, 33 = Zero ref point)

Command

*854xxx (where xxx is the setting)

Range	000-001
Function	000 = Patrol mode off, 001 = Patrol mode on
BBV Telemetry Equivalencies	Implemented
Pelco Equivalencies	Not Implemented

Command

858xxx (where xxx is the setting)

Range	000-001
Function	000 = Turn Auto Pan off, 001 = Turn Auto Pan on
BBV Telemetry Equivalencies	Selects Autopan in frame 3, turned off my left or right movement, or *858000
Pelco Equivalencies	Not Implemented

Index

DEDICATED MICROS

NetVu CONNECTED